

09/787194

JC02 Rec'd PCT/PTO 15 MAR 2001

## SEQUENCE LISTING

&lt;110&gt; Japan Science And Technology Corporation

&lt;120&gt; Brain type organic anion transporter and its gene encoded

&lt;130&gt; PA907368

&lt;160&gt; 4

&lt;210&gt; 1

&lt;211&gt; 2179

&lt;212&gt; DNA

&lt;213&gt; Human

&lt;400&gt; 1

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&lt;210&gt; 2

&lt;211&gt; 536

&lt;212&gt; PRT

&lt;213&gt; Human

&lt;400&gt; 2

Met Thr Phe Ser Glu lie Leu Asp Arg Val Gly Ser Met Gly His	15
Phe Gln Phe Leu His Val Ala Ile Leu Gly Leu Pro lie Leu Asn	30
Met Ala Asn His Asn Leu Leu Gln ile Phe Thr Ala Ala Thr Pro	45
Val His His Cys Arg Pro Pro His Asn Ala Ser Thr Gly Pro Trp	60
Val Leu Pro Met Gly Pro Asn Gly Lys Pro Glu Arg Cys Leu Arg	75
Phe Val His Pro Pro Asn Ala Ser Leu Pro Asn Asp Thr Gln Arg	90
Ala Met Glu Pro Cys Leu Asp Gly Trp Val Tyr Asn Ser Thr Lys	105
Asp Ser Ile Val Thr Glu Trp Asp Leu Val Cys Asn Ser Asn Lys	120
Leu Lys Glu Met Ala Gln Ser ile Phe Met Ala Gly ile Leu ile	135
Gly Gly Leu Val Leu Gly Asp Leu Ser Asp Arg Phe Gly Arg Arg	150
Pro ile Leu Thr Cys Ser Tyr Leu Leu Leu Ala Ala Ser Gly Ser	165
Gly Ala Ala Phe Ser Pro Thr Phe Pro ile Tyr Met Val Phe Arg	180
Phe Leu Cys Gly Phe Gly ile Ser Gly ile Thr Leu Ser Thr Val	195
ile Leu Asn Val Glu Trp Val Pro Thr Arg Met Arg Ala ile Met	210
Ser Thr Ala Leu Gly Tyr Cys Tyr Thr Phe Gly Gln Phe ile Leu	225
Pro Gly Leu Ala Tyr Ala ile Pro Gln Trp Arg Trp Leu Gln Leu	240
Thr Val Ser ile Pro Phe Phe Val Phe Phe Leu Ser Ser Trp Trp	255
Thr Pro Glu Ser ile Arg Trp Leu Val Leu Ser Gly Lys Ser Ser	270
Glu Ala Leu Lys ile Leu Arg Arg Val Ala Val Phe Asn Gly Lys	285
Lys Glu Glu Gly Glu Arg Leu Ser Leu Glu Glu Leu Lys Leu Asn	300
Leu Gln Lys Glu ile Ser Leu Ala Lys Ala Lys Tyr Thr Ala Ser	315
Asp Leu Phe Arg ile Pro Met Leu Arg Arg Met Thr Phe Cys Leu	330
Ser Leu Ala Trp Phe Ala Thr Gly Phe Ala Tyr Tyr Ser Leu Ala	345
Met Gly Val Glu Glu Phe Gly Val Asn Leu Tyr ile Leu Gln ile	360

Ile Phe Gly Gly Val Asp Val Pro Ala Lys Phe Ile Thr Ile Leu	375
Ser Leu Ser Tyr Leu Gly Arg His Thr Thr Gln Ale Ale Ale Leu	390
Leu Leu Ala Gly Gly Ala Ile Leu Ala Leu Thr Phe Val Pro Leu	405
Asp Leu Gln Thr Val Arg Thr Val Leu Ala Val Phe Gly Lys Gly	420
Cys Leu Ser Ser Ser Phe Ser Cys Leu Phe Leu Tyr Thr Ser Glu	435
Leu Tyr Pro Thr Val Ile Arg Gln Thr Gly Met Gly Val Ser Asn	450
Leu Trp Thr Arg Val Gly Ser Met Val Ser Pro Leu Val Lys Ile	465
Thr Gly Glu Val Gln Pro Phe Ile Pro Asn Ile Ile Thr Gly Ile	480
Thr Ala Leu Leu Gly Gly Ser Ala Ala Leu Phe Leu Pro Glu Thr	495
Leu Asn Gln Pro Leu Pro Glu Thr Ile Glu Asp Leu Glu Asn Trp	510
Ser Leu Arg Ala Lys Lys Pro Lys Gln Glu Pro Glu Val Glu Lys	525
Ala Ser Gln Arg Ile Pro Leu Gln Pro His Gly Pro Gly Leu Gly	540
Ser Ser ***	542

&lt;210&gt; 3

&lt;211&gt; 2191

&lt;212&gt; DNA

&lt;213&gt; Rat

&lt;400&gt; 3

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&lt;210&gt; 4

&lt;211&gt; 536

&lt;212&gt; PRT

&lt;213&gt; Rat

&lt;400&gt; 4

Met Thr Phe Ser Glu Ile Leu Asp Arg Val Gly Ser Met Gly Pro	15
Phe Gln Tyr Leu His Val Thr Leu Leu Ala Leu Pro Val Leu Gly	30
Ile Ala Asn His Asn Leu Leu Gln Ile Phe Thr Ala Thr Thr Pro	45
Val His His Cys Arg Pro Pro Pro Asn Ala Ser Ile Gly Pro Trp	60
Val Leu Pro Leu Asp Pro Asn Gly Lys Pro Glu Lys Cys Leu Arg	75
Phe Val His Leu Pro Asn Ala Ser Leu Pro Asn Asp Thr Gln Arg	90
Ala Thr Glu Pro Cys Leu Asp Gly Trp Ile Tyr Asn Ser Thr Arg	105
Asp Thr Ile Val Ile Glu Trp Asp Leu Val Cys Ser Ser Asn Lys	120
Leu Lys Glu Met Ala Gln Ser Ile Phe Met Ala Gly Ile Leu Val	135
Gly Gly Pro Val Ile Gly Glu Leu Ser Asp Arg Phe Gly Arg Lys	150
Pro Ile Leu Thr Trp Ser Tyr Leu Met Leu Ala Ala Ser Gly Ser	165
Gly Ala Ala Phe Ser Pro Ser Leu Pro Val Tyr Met Ile Phe Arg	180
Phe Leu Cys Gly Cys Ser Ile Ser Gly Ile Ser Leu Ser Thr Val	195
Ile Leu Asn Val Glu Trp Val Pro Thr Ser Met Arg Ala Ile Ser	210
Ser Thr Ser Ile Gly Tyr Cys Tyr Thr Ile Gly Gln Phe Ile Leu	225
Ser Gly Leu Ala Tyr Ala Ile Pro Gln Trp Arg Trp Leu Gln Leu	240
Thr Ser Ser Ala Pro Phe Phe Ile Phe Ser Leu Leu Ser Trp Trp	255
Val Pro Glu Ser Ile Arg Trp Leu Val Leu Ser Gly Lys Tyr Ser	270
Lys Ala Leu Lys Thr Leu Gln Arg Val Ala Thr Phe Asn Gly Lys	285
Lys Glu Glu Gly Lys Lys Leu Thr Ile Glu Glu Leu Lys Phe Asn	300
Leu Gln Lys Asp Ile Thr Ser Ala Lys Val Lys Tyr Gly Leu Ser	315

Asp Leu Phe Arg Val Ser Ile Leu Arg Arg Val Thr Phe Cys Leu	330
Ser Leu Ala Trp Phe Ser Thr Gly Phe Ala Tyr Tyr Ser Leu Ala	345
Met Gly Val Glu Glu Phe Gly Val Asn Ile Tyr Ile Leu Gln Ile	360
Ile Phe Gly Gly Val Asp Ile Pro Ala Lys Phe Ile Thr Ile Leu	375
Ser Leu Ser Tyr Leu Gly Arg Arg Ile Thr Gln Ser Phe Leu Leu	390
Leu Leu Ala Gly Gly Ala Ile Leu Ala Leu Ile Phe Val Pro Ser	405
Glu Met Gln Leu Leu Arg Thr Ala Leu Ala Val Phe Gly Lys Gly	420
Cys Leu Ser Gly Ser Phe Ser Cys Leu Phe Leu Tyr Thr Ser Glu	435
Leu Tyr Pro Thr Val Leu Arg Gln Thr Gly Met Gly Ile Ser Asn	450
Val Trp Ala Arg Val Gly Ser Met Ile Ala Pro Leu Val Lys Ile	465
Thr Gly Glu Leu Gln Pro Phe Ile Pro Asn Val Ile Phe Gly Thr	480
Thr Ala Leu Leu Gly Gly Ser Ala Ala Phe Phe Leu Leu Glu Thr	495
Leu Asn Arg Pro Leu Pro Glu Thr Ile Glu Asp Ile Gln Asn Trp	510
His Lys Gln Val Gln Lys Thr Lys Gln Glu Ser Glu Ala Glu Lys	525
Ala Ser Gln Ile Ile Pro Leu Lys Thr Gly Gly	536